Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2

TOP SECRET

PRIORITY

P 140125Z
FM NPIC

1968 MAY 14 02 05Z

25X1

OUT65080

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
FICEUR

25X1

ZEM
T O P S E C R E T TTTTT CITE NPIC 3732. 25X1
ALSO FOR 544 ARTW. 25X1
SECTION ONE OF TWO
SUBJECT: CAMERA INFORMATION FOR MISSION 1103-1
1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.
2. CAMERA DATA
A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZON	STAR HORIZON
	FWD 609.638	FWD 55.084	FWD 54.979
	AFT 609.638	AFT 55.163	AFT 54.821

FILTERS
PAN FWD PRIMARY W/25
ALTERNATE W/12
PAN AFT PRIMARY W/21
ALTERNATE SF-05
FWD STAR. HOR. W/25
FWD PORT HOR W/25
AFT STAR. HOR W/25
FWD STAR. HOR W/25
APERTURE
STAR HOR F/8.0
PORT HOR F/6.3

SLIT WIDTH (IN) POSITIONS	1	2	3	4	FAILSAFE
FWD	.195	.320	.320	.100	.300
AFT	.135	.185	.260	.135	.160

EXPOSURE (SEC) STAR HOR 1/100 PORT HOR 1/100
FILM FWD 3404 AND SO-380 AFT 3404 AND SO-380
DYNAMIC RESOLUTION (L/MM)
FWD HIGH CONTRAST 196
FWD LOW CONTRAST 132
AFT HIGH CONTRAST 205
AFT LOW CONTRAST 137

B. DISIC UNIT	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	75.849	76.056	77.019
FILTER (WRATTED)	NONE	NONE	W/12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401 AND 3400	3401 AND 3400	3400
RESOLUTION			

STELLAR RESOLUTION NOT AVAILABLE INDEX (HI CONTRAST L/MM)

ANGLE OFF AXIS (DEG)	0	17	34
RADIAL	82	75	63

DISTRIBUTION		
CY	OFFICE	FI
1	FILE	
2	CABLE SEC.	
	PP&B/RD	
	SECUR.	
	TSSG	
	PSG/OC	
	RRD	
	REPRO	
3	AID	
	IEG	
	PROD	
	SCIEN	
	WEST	
	EAST	
	M&S	
	PGM	
	IAS	
	DIA-XX4	
	SPAD	
	DIA-AP	
	25X1	
	CMX	

ADVANCED COPY SANITIZED WITH TYPE

25X1

GROUP 1
Excluded from automatic downgrading and declassification

TOP SECRET

Declass Review by NGA

Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2

Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2

TANGENTIAL 79 65 48

UNIT NUMBER 5

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

	3	2	1	0	359	358	357
FWD	.002	.001	0	0	0	.001	.003
AFT	.001	0	0	0	0	0	.001

B. HORIZON CAMERAS

	FWD		AFT	
	PORT	STAR	PORT	STAR
RADIAL 10 DEGREES	.01	.02	.02	.01
RADIAL 20 DEGREES	.03	.05	.05	.04
TANGENTIAL	.029	.015	.029	.013

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 30 DEG. 37 MIN 22.49 SEC

B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERA.

FWD PORT 15 DEG 32 MIN 41.85 SEC
FWD STAR 15 DEG 20 MIN 18.78 SEC
AFT PORT 14 DEG 41 MIN 17.73 SEC
AFT STAR 14 DEG 39 MIN 17.80 SEC

C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS

STARBOARD STELLAR AND INDEX 100 DEG 03 MIN 45 SEC
PORT STELLAR AND INDEX 100 DEG 01 MIN 19 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D THRU 3D	4	14
5D THRU 10D	8	12
14D THRU 58D	8	13
61D THRU 85D	7	14
86D THRU 103D	8	14

FOR ALL PASSES PRIMARY PERIOD 3528 SEC, SECONDARY PERIOD 2617, SECONDARY RAMP FACTOR .051050

7. PROGRAM TIME DATA

CAMERA ON TIME (ZULU TIME)					PROGRAM ON TIME UP RAMP	PROGRAM DURATION
PASS	DAY	HR	MIN	SEC	SEC	SEC
1D	01	22	59	10	1287	33
3D	02	01	52	56	1035	113
5D	02	04	57	48	1492	37
6D	02	06	27	17	1491	113
7D1	02	07	52	14	1320	55
7D2	02	07	55	18	1504	122
8D	02	09	19	09	1219	30
9AE	02	10	27	36	11	43
9D	02	10	53	02	1536	90
10D	02	12	30	00	2035	77
14D	02	18	27	40	2184	33
16D	02	21	14	03	1536	61
21D	03	04	32	58	1303	96
22D	03	05	56	53	1026	74
23D1	03	07	29	23	1264	65
23D2	03	07	34	23	1564	72
24D1	03	08	55	42	1131	305
24D2	03	09	01	22	1471	98
25D1	03	10	29	06	1423	74
25D2	03	10	30	59	1536	133
25D3	03	10	35	50	1827	88

Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2

Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2

32D	03	20	49	40	1484	53
37D1	04	04	11	22	1444	78
37D2	04	04	26	36	2359	132
38D	04	05	32	35	1005	173
39D1	04	07	03	48	1161	61
39D2	04	07	05	41	1275	112
39D3	04	07	09	16	1490	77
40D	04	08	38	28	1526	48
41D	04	10	08	09	1592	151
42D	04	11	45	35	2124	77
48D	04	20	27	35	1561	35
52D	05	02	16	26	1244	66
54D1	05	05	16	59	1457	96
54D2	05	05	34	47	2525	39
54D3	05	05	36	03	2600	76
55D	05	06	44	01	1369	40
57D1	05	09	40	29	1339	55
57D2	05	09	43	52	1542	84
58D1	05	11	11	48	1509	102
58D2	05	11	15	37	1739	163
61D	05	15	29	14	1032	42
63D	05	18	37	19	1586	39
64D	05	20	05	53	1585	52
71D1	06	06	21	30	1321	137
71D2	06	06	25	27	1558	31
72D	06	07	52	36	1474	36
73D	06	09	18	56	1341	25
74D	06	10	53	24	1698	164
76D	06	13	55	50	2020	69
79D	06	18	13	45	1559	39
85D	07	02	58	53	1259	55
86D	07	04	27	58	1286	125
87D1	07	05	59	46	1478	32
87D2	07	06	03	23	1696	101
87D3	07	06	06	54	1906	122
88D1	07	07	29	23	1540	76
88D2	07	07	31	28	1665	48
89D1	07	08	58	04	1546	40
89D2	07	08	59	51	1653	137
90D	07	10	31	34	1840	185
97D	07	20	50	29	1784	45
102D	08	04	12	22	1676	115
103D	08	05	36	53	1429	74

NOTE: NO FILM EXPOSED ON AFT CAMERA DURING PASS 48.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM	DIFFERENCE
9	196187.099	37384.2156	--------
16	235090.648	76287.7605	.005
25	281293.614	36090.7213	.005
32	320467.592	75264.6948	.004
41	366724.958	35122.0551	.006
48	405378.265	73775.3572	.005
57	451347.923	33345.0091	.006
65	495556.651	77553.7310	.006
73	536436.257	32033.3311	.006
81	43764.800	76232.7795	.006
89	84710.810	30778.7832	.006
97	129176.794	75244.7601	.007
106	175449.209	35117.1674	.008

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1

T O P S E C R E T --END OF MESSAGE--

Approved For Release 2007/01/18 : CIA-RDP78B04549A000900030022-2